Road Inventory Data Dictionary

Field Name	Alias	Type	Prec	n. Sca	le Lengt	h Edit	Null	Req.	Domain Fixed
RoadInventory_ID	RoadInventory_ID	Integer	0	0	4	Yes	No	Yes	No
CRN	CRN	String	0	0	9	Yes	No	Yes	No
RoadSegment_ID	RoadSegment_ID	Integer	0	0	4	Yes	No	Yes	No
FromMeasure	FromMeasure	Double	0	0	8	Yes	No	Yes	No
ToMeasure	ToMeasure	Double	0	0	8	Yes	No	Yes	No
AssignedLength	AssignedLength	Double	0	0	8	Yes	No	Yes	No
AssignedLengthSource	AssignedLengthSource	Small Integer	0	0	2	Yes	No	Yes	No
StreetList_ID	StreetList ID	Integer	0	0	4	Ves	No	Yes	No
StreetName	StreetName	String	0	0	255			Yes	
City	City	Small Integer	0	0	2	Yes	No	Yes	Yes
County	County	String	0	0	255	Yes	No	Yes	Yes
MunicipalStatus	MunicipalStatus	Small Integer	0	0	2	Yes	No	Yes	Yes
FromEndType	FromEndType	Small Integer	0	0	2	Yes	Yes	No	Yes
FromStreetName	FromStreetName	String	0	0	255	Yes	Yes	No	No
FromCity	FromCity	Small Integer	0	0	2	Yes	Yes	No	Yes
FromState	FromState	Small Integer	0	0	2	Yes	Yes	No	Yes
ToEndType	ToEndType	Small Integer	0	0	2	Yes	Yes	No	Yes
ToStreetName	ToStreetName	String	0	0	255	Yes	Yes	No	No
ToCity	ToCity	Small Integer	0	0	2	Yes	Yes	No	Yes
ToState	ToState	Small Integer	0	0	2	Yes	Yes	No	Yes
MileageCounted	MileageCounted	Small Integer	0	0	2	Yes	No	Yes	Yes
RouteKey	RouteKey	String	0	0	20	Yes	Yes	No	No
RouteFrom	RouteFrom	Double	0	0	8	Yes	Yes	No	No
RouteTo	RouteTo	Double	0	0	8	Yes	Yes	No	No
RouteSystem	RouteSystem	String	0	0	255	Yes	Yes	No	Yes
RouteNumber	RouteNumber	String	0	0	10	Yes	Yes	No	No
SubRoute	SubRoute	String	0	0	10	Yes	Yes	No	No
RouteDirection	RouteDirection	String	0	0	255	Yes	Yes	No	Yes
RouteType	RouteType	Small Integer	0	0	2	Yes	Yes	No	Yes
RouteQualifier	RouteQualifier	Small	0	0	2	Yes	Yes	No	Yes
RPA	RPA	Integer String	0	0	20	Yes	No	Yes	Yes
MPO	MPO	String	0	0	35	Yes	No	Yes	Yes
MassHighwayDistrict	MassHighwayDistrict	Small Integer	0	0	2	Yes	No	Yes	Yes
UrbanType	UrbanType	Small	0	0	2	Yes	No	Yes	Yes
UrbanizedArea	UrbanizedArea	Integer String	0	0	255	Yes	Yes	No	Yes
FunctionalClassification	FunctionalClassification	Small	0	0	2		Yes		Yes
Jurisdiction	Jurisdiction	Integer String	0	0	255	Yes	Yes	No	Yes
TruckRoute	TruckRoute	Small Integer	0	0	2		Yes		Yes
NHSStatus	NHSStatus	Small	0	0	2	Yes	Yes	No	Yes
FederalAidRouteNumber	FederalAidRouteNumber	Integer String	0	0	10		Yes		Yes
FacilityType	FacilityType	Small	0	0	2		Yes		Yes
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StreetOperation	StreetOperation	Small	0	0	2	Vec	Yes	No	Yes
-	-	Integer Small							
AccessControl	AccessControl	Integer Small	0	0	2	Yes	Yes	No	Yes
TollRoad	TollRoad	Integer	0	0	2	Yes	Yes	No	Yes
NumberOfPeakHourLanes	NumberOfPeakHourLanes	Small Integer	0	0	2	Yes	Yes	No	No
RightSidewalkWidth	RightSidewalkWidth	Small Integer	0	0	2	Yes	Yes	No	No
RightShoulderType	RightShoulderType	Small Integer	0	0	2	Yes	Yes	No	Yes
RightShoulderWidth	RightShoulderWidth	Small Integer	0	0	2	Yes	Yes	No	No
MedianType	MedianType	Small Integer	0	0	2	Yes	Yes	No	Yes
MedianWidth	MedianWidth	Small Integer	0	0	2	Yes	Yes	No	No
LeftSidewalkWidth	LeftSidewalkWidth	Small Integer	0	0	2	Yes	Yes	No	No
LeftShoulderType	LeftShoulderType	Small Integer	0	0	2	Yes	Yes	No	Yes
LeftShoulderWidth	LeftShoulderWidth	Small Integer	0	0	2	Yes	Yes	Yes	No
SurfaceType	SurfaceType	Small Integer	0	0	2	Yes	Yes	No	Yes
SurfaceWidth	SurfaceWidth	Small Integer	0	0	2	Yes	Yes	No	No
RightOfWayWidth	RightOfWayWidth	Small Integer	0	0	2	Yes	Yes	No	No
NumberOfTravelLanes	NumberOfTravelLanes	Small Integer	0	0	2	Yes	Yes	No	No
OppositeNumberofTravelLanes	OppositeNumberofTravelLanes	Small Integer	0	0	2	Yes	Yes	No	No
Curbs	Curbs	Small Integer	0	0	2	Yes	Yes	No	Yes
Terrain	Terrain	Small Integer	0	0	2	Yes	No	Yes	Yes
SpeedLimit	SpeedLimit	Small Integer	0	0	2	Yes	Yes	No	No
StructuralCondition	StructuralCondition	Small	0	0	2	Yes	Yes	No	Yes
ADT	ADT	Integer Integer	0	0	4	Yes	Yes	No	No
ADTStationNumber	ADTStationNumber	Integer Small	0	0	4	Yes	Yes	No	No
ADTDerivation	ADTDerivation	Integer	0	0	2	Yes	Yes	No	Yes
ADTYear	ADTYear	Small Integer	0	0	2	Yes	Yes	No	No
IRI	IRI	Small Integer	0	0	2	Yes	Yes	No	No
IRIYear	IRIYear	Small Integer	0	0	2	Yes	Yes	No	No
IRIStatus	IRIStatus	Small Integer	0	0	2	Yes	Yes	No	Yes
PSI	PSI	Small Integer	0	0	2	Yes	Yes	No	No
PSIYear	PSIYear	Small Integer	0	0	2	Yes	Yes	No	No
HPMSCode	HPMSCode	Small	0	0	2	Yes	Yes	No	Yes
HPMSSample_ID	HPMSSample_ID	Integer String	0	0	12	Yes	Yes	No	No
AddedRoadType	AddedRoadType	Small	0	0	2	Yes	Yes	No	Yes
DateActive	DateActive	Integer Date	0	0	8	Yes	No	Yes	No
LifeCycleStatus	LifeCycleStatus	Small	0	0	2	Yes	No	Yes	Yes
ITEM_ID	ITEM_ID	Integer Integer	0	0	4	Yes		Yes	
OBJECTID	OBJECTID	OID	0	0	4	No	No	Yes	No
Shape	Shape	Geometry	0	0	0	Yes	No	Yes	No

Field Descriptions

RoadInventory_ID: A unique identifier for every arc within the *RoadInventory* file. Derived from the RoadSegment_ID, appended with an incrementing identifier starting with "00". Will remain consistent on future *RoadInventory* publications.

CRN: A derived field combining the character for County code with the RoadInventory_ID unique identifier

RoadSegment_ID: The identifier defining the source segment of each *RoadInventory* arc

FromMeasure: The measured length along the specified *RoadSegment* feature where this *RoadInventory* segment starts

ToMeasure: The measured length along the *RoadSegment* feature where this *RoadInventory* segment ends

AssignedLength: Segment length in miles

AssignedLengthSource: Defines the source of the assigned length value

- 0 =Shape length
- 1 = Odometer
- 2 = Odometer prorated from CSN pair (60000-rule) during migration from coverage model

StreetList_ID: The identifier of the Street the segment lies on

StreetName: The name of the street the segment lies on

City

1= Abington & 351 = Yarmouth

County

- A = Barnstable
- B = Berkshire
- C = Bristol
- D = Dukes
- E = Essex
- F = Franklin
- G = Hampden H = Hampshire
- I = Middlesex
- J = Nantucket
- K = Norfolk
- L = Plymouth
- M = Suffolk
- N = Worcester

MunicipalStatus

- 1 = City
- 2 = Town

FromEndType: Defines the start of the street the segment lies on

- 1 = Cross-street
- 2 = Dead end
- 3 = Cul-de-sac
- 4 = Private property
- 5 = Town line
- 6 = State line

FromStreetName: The cross-street where the street starts (when the street starts at a cross-street)

FromCity: The city where the street starts when the street starts at a city boundary

1= Abington & 351 = Yarmouth

FromState: The state where the street starts when the street starts at a state boundary

- 1 = Connecticut
- 2 = New Hampshire
- 3 = New York
- 4 = Rhode Island
- 5 = Vermont

ToEndType Defines the end of the street the segment lies on

- 1 = Cross-street
- 2 = Dead end
- 3 = Cul-de-sac
- 4 = Private property
- 5 = Town line
- 6 = State line

ToStreetName: The cross-street where the street ends (when the street ends at a cross-street)

ToCity: The city where the street ends when the street ends at a city boundary

1= Abington & 351 = Yarmouth

ToState: The state where the street ends when the street ends at a state boundary

- 1 = Connecticut
- 2 = New Hampshire
- 3 = New York
- 4 = Rhode Island
- 5 = Vermont

MileageCounted: Describes whether the segments length is counted towards the official statewide road centerline mileage

1 = Yes

0 = No

Note - See Facility Type

RouteKey: The primary state numbered route or designated non-numbered route on which this segment lies; when more than one route traverse a segment, the *highest order* (Interstate > US Highway > State Route), *lowest number* route is primary; non-numbered routes are used internally by Planning for pavement data collections

RouteFrom: The measured length along the specified Route where this RoadInventory segment starts

RouteTo: The measured length along the specified Route where this RoadInventory segment ends

RouteSystem

I = Interstate

US = US Highway

SR = State Route

0 = Not a numbered route

RouteNumber: The official route number designation; need not be exclusively numeric (146A, for example)

SubRoute: Optional designation to distinguish alternate sections of the same numbered route

RouteDirection

NB = North

EB = East

SB = South

WB = West

RouteType

- 0 = Non-numbered
- 1 = Numbered-Primary (NB/EB)
- 2 = Numbered-Opposing (SB/WB)

RouteQualifier: (Reserved for future use -- not implemented at this time)

- 0 = No Qualifier or Not Signed or Not Applicable
- 1 = Alternate

Road Inventory Data Dictionary

- 2 = Business Route
- 3 = Bypass
- 4 = Spur
- 5 = Loop
- 6 = Proposed
- 7 = Temporary
- 8 = Truck Route
- 9 =None of the Above

RPA: Regional Planning Agency

BRPC =Berkshire Regional Planning Commission

CCC = Cape Cod Commission

CMRPC = Central Massachusetts Regional Planning Commission

FRCOG = Franklin Regional Council of Governments

MAPC = Metropolitan Area Planning Council

MRPC = Montachusett Regional Planning Commission

MVC = Marthas Vineyard Commission

MVPC = Merrimack Valley Planning Commission

NMCOG = Northern Middlesex Council of Governments

NPEDC = Nantucket Planning and Economic Development Commission

OCPC = Old Colony Planning Council

PVPC = Pioneer Valley Planning Commission

SRPEDD = Southeastern Regional Planning and Economic Development District

MPO: Metropolitan Planning Organization

Berkshire

Boston Region

Cape Cod

Central Massachusetts

Franklin

Martha's Vineyard

Merrimack Valley

Montachusett

Nantucket

Northern Middlesex

Old Colony

Pioneer Valley

Southeastern Massachusetts

MassHighwayDistrict

MinValue: 1 MaxValue: 5

UrbanType

- 1 = Urbanized area Densely settled territory that contains 50,000 people or more
- 2 = Urban cluster Densely settled territory that contains at least 5,000 people but fewer than 50,000 people
- 5 = Rural

UrbanizedArea

- 0 = RURAL
- 7 = Boston (MA-NH-RI)
- 26 = Providence (RI-MA)
- 43 = Springfield (MA-CT)
- 76 = Worcester (MA-CT)
- 127 = New Bedford
- 189 = Leominster-Fitchburg
- 199 = Pittsfield
- 246 = Nashua (NH-MA)
- 394 = Barnstable Town
- A = Amherst
- B = Athol
- C = Great Barrington
- D = Greenfield
- E = Lee
- F = Nantucket

- G = North Adams (MA-VT)
- I = Pepperell
- K = Stafford (CT-MA)
- L = Vineyard Haven
- M = Ware
- O = Winchendon (MA-NH)

Functional Classification: Note: use urban/rural designation to interpret functional classification

- 0 = Local
- 1 = Interstate
- 2 = Principal arterial
- 3 = Rural minor arterial or urban principal arterial
- 5 = Urban minor arterial or rural major collector
- 6 = Urban collector or rural minor collector

Jurisdiction

- 1 = Massachusetts Highway Department
- 2 = City or Town accepted road
- 3 = Department of Conservation and Recreation
- 4 = Massachusetts Turnpike Authority
- 5 = Massachusetts Port Authority
- 6 = State Park or Forest
- 7 =State Institutional
- 8 = Federal Park or Forest
- 9 = County Institutional
- 0 =Unaccepted by city or town
- B = State college or university
- C = US Department of Defense
- D = US Army Corps of Engineers
- E = Federal Institutional
- F = Other Federal
- G = Federal Bureau of Indian Affairs
- H = Private

Truck Route

- 0 = Not a parkway not on a designated truck route
- 1 = Designated truck route under Federal Authority in 23 CFR 658 Available to STAA vehicles (Twin 28' Semi-trailer-trailer and 48' Semi-trailer combinations)
- 2 = Designated truck route ONLY under State Authority. Fully available to both types of STAA vehicles described above
- 3 = Department of Conservation and Recreation Parkway No trucks allowed

NHSStatus: National Highway System Status

- 0 = Not on NHS
- 1 = NHS Interstate
- 2 = NHS Strategic Defense Highway System (STRAHNET)
- 3 = NHS STRAHNET Connector
- 4 = NHS Other One-way pair
- 5 = NHS Other Truck route exclusion
- 6 = NHS Major Airport
- 7 = NHS Major Port Facility
- 8 = NHS Major Amtrak Station
- 9 = NHS Major Rail/Truck terminal
- 10 = NHS Major Intercity Bus Terminal
- 11 = NHS Major Public Transit or Multi-Modal Passenger Terminal
- 12 = NHS Major Pipeline Terminal
- 13 = NHS Major Ferry Terminal
- 14 = NHS Other (not in above categories)

FederalAidRouteNumber: Maintained for historical purposes

FacilityType

- 1 = Mainline roadway*
- 2 = Bridge*
- 3 = Tunnel*

Road Inventory Data Dictionary

- 4 = Doubledeck*
- 5 = Rotary*
- 6 = Causeway*
- 7 = Simple ramp
- 8 = Ramp NB/EB
- 9 = Ramp SB/WB
- 10 = Collector Distributor
- 11 = Simple Ramp Tunnel
- 12 = Bicycle
- *Road types included in official statewide road centerline mileage

StreetOperation

- 1 = One-way traffic
- 2 =Two-way traffic

AccessControl

- 0 = No control
- 1 = Full control
- 2 = Partial control

TollRoad

- 0 = Not a toll road
- 1 = A toll road

Number Of Peak Hour Lanes: Number of lanes open for vehicles during Peak travel times including breakdown and high-occupancy vehicle lanes

RightSidewalkWidth: Width of the sidewalk in feet on the right side of the road traveling in the primary (NB/EB) direction of travel

RightShoulderType: Type of shoulder on the right side of the road traveling in the primary (NB/EB) direction of travel

- 0 = No Shoulder
- 1 = Stable Unruttable compacted subgrade
- 2 = Unstable shoulder
- 3 = Hardened bituminous mix or penetration
- 4 = Combination shoulder

RightShoulderWidth: Width of shoulder in feet on the right side of the road traveling in the primary (NB/EB) direction of travel

MedianType: Type of median on divided roadways

- 0 = None
- 1 = Curbed
- 2 = Positive barrier
- 3 = Unprotected

MedianWidth: Width of median in feet on divided roadways

MinValue: 1 MaxValue: 999

LeftSidewalkWidth: Width of the sidewalk in feet on the left side of the road traveling in the primary (NB/EB) direction of travel; on divided roadways, this will fall on the opposing direction (see illustration)

LeftShoulderType: Type of shoulder on the left side of the road traveling in the primary (NB/EB) direction of travel; for divided roadways median shoulders are assumed to be of the same type

- 0 = No Shoulder
- 1 = Stable Unruttable compacted subgrade
- 2 = Unstable shoulder
- 3 = Hardened bituminous mix or penetration
- 4 =Combination shoulder

LeftShoulderWidth: Width of shoulder in feet on the left side of the road traveling in the primary (NB/EB) direction of travel; for divided roadways median shoulders are assumed to be of the same type

SurfaceType

- 1 = Unimproved, graded earth, or soil surface road
- 2 = Gravel or stone road
- 3 = Brick road
- 4 = Block road
- 5 = Surface-treated road
- 6 = Bituminous concrete road
- 7 = Portland cement concrete road
- 8 = Composite road; flexible over rigid
- 9 = Composite road; rigid over flexible or rigid over rigid ("white topping")

SurfaceWidth: Surface width in feet; measurement of traveled way, excluding shoulders/auxiliary lanes

RightOfWayWidth: Right-of-way width in feet

NumberOfTravelLanes: Number of travel lanes (for undivided roadways, number of lanes in both directions of travel, for divided roadways, number of lanes on the given segment only)

MinValue: 1 MaxValue: 6

OppositeNumberOfTravelLanes: Number of travel lanes in the opposite direction of a divided roadway

MinValue: 1 MaxValue: 6

Curbs

- 0 = None
- 1 = Left side only
- 2 =Right side only
- 3 = Both sides
- 4 = Along median only
- 5 = All curbs (divided highway)

Terrain

- 1 = Level
- 2 = Rolling
- 3 = Mountainous

SpeedLimit

MinValue: 5 MaxValue: 65

StructuralCondition

- 1 = Good
- 2 = Fair
- 3 = Deficient
- 4 = Intolerable

ADT: Average Annual Daily Traffic

ADTStationNumber: ADT count station location number; used to reference Traffic Data Collections counting station number

ADTDerivation

- 0 = Not applicable
- 1 = Derived from counts collected on or adjacent to the section during the current year
- 2 = Derived from factoring counts from the previous year count-base AADT that is less than three years old
- 3 = Derived from count data that is three or more years old
- 4 = Derived from an estimate
- 5 = Working code for principal arterial counting program

ADTYear: Year of ADT collection

IRI: Pavement Roughness; value reflects calibrated value in inches of roughness per mile

IRIYear: Year of IRI collection

IRIStatus

- 1 = IRI data collected
- 2 = No IRI data collected due to speed
- 3 = No IRI data collected due to construction
- 4 = No data collected due to bridge deck

PSI: Pavement Servicibility Index; value based on a five-point rating system reflecting the quality of pavement in terms of slope variance, cracking, etc.

PSIYear: Year of PSI collection

HPMSCode

- 0 = Not an HPMS section nor on a road that has an HPMS section
- 1 = Not an HPMS section but is on a road that has an HPMS section
- 2 = An HPMS section

HPMSSample_ID: The HPMS Sample identifier for sections lying on a designated HPMS sample

AddedRoadType: Description of roads added to the GIS that are 250 feet or more and serve a specific land use

- 0 = Default/Not applicable
- 1 = Public road (but not highway ramp)
- 3 = Highway ramp
- 4 = Road appears in 1:5000-scale centerline file, but not in DLG or orthophotos
- 5 = Research park, industrial park, office park, shopping mall or center, condominium complex or subdivision
- 6 = Airport passenger or cargo area, port access road, intermodal terminal access road, or major truck terminal
- 7 = Treatment plant, electrical plant, petroleum depot, town or state facility, or other water, sewer, power, or communication facility
- 8 = State park or other recreational area
- 9 = Cul-de-sac
- 10 = Other private road
- 11 = Rest area

DateActive: The date the road became active, or, if not known, the date it was entered into the system; all roads active when this field was implemented were assigned a date 1/1/2004

LifeCycleStatus

- 1 = Proposed
- 2 = In Construction
- 3 = Active

ITEM_ID: A sequential identifier assigned to each RoadInventory segment

ObjectID: ArcGIS internal unique identifier

Shape: ArcGIS geometry field